

Diaphragm Type Dry Vacuum Pump DA Series

Features

Diaphragm type pump creates vacuum by reciprocating movement of rubber diaphragms.
 Pump structure creates an Oil-free environment and maintenance easy.
 Various pumping speed and two/single stages are selectable depends on your required pressure and pumping volume.

Applications

- Vacuum chucks, wafer and tip handling devices.
- Vacuum tweezers, medical appliances.
- Printing equipment.
- Automatic packing machines.
- Optical appliances.



DA-20DC



DA-40SC



DA-41D



DA-81S

Specifications

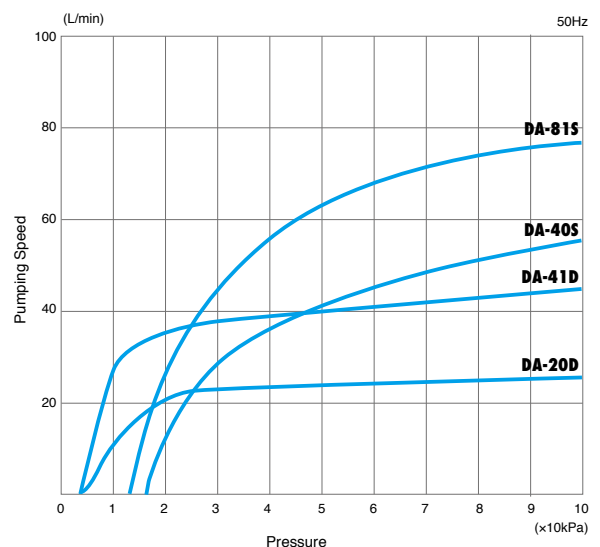
Model	Unit	DA-20DC		DA-40SC		DA-41D		DA-81S	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Actual pumping speed	L/min	20	24	40	46	40	46	75	85
	m ³ /h	1.20	1.44	2.40	2.76	2.40	2.76	4.50	5.10
	CFM	0.71	0.85	1.41	1.62	1.41	1.62	2.65	3.00
Ultimate pressure	Pa (kPa)	5.33 × 10 ³ (-96.0)		19.9 × 10 ³ (-81.4)		3.3 × 10 ³ (-98.0)		13.3 × 10 ³ (-88.0)	
	Torr	40.0		149		24.8		100	
	mbar	53.3		199		33.0		133	
Motor		Single phase, 220V, 60W, 4P, Capacitor run		Single phase, 220V, 60W, 4P, Capacitor run		Single phase, 220V, 100W, 4P, Capacitor run		Single phase, 220V, 100W, 4P, Capacitor run	
Full load current	A	0.8		0.8		1.2	1.25	1.2	1.25
Weight	kg	7.2		7.2		10.3		10.3	
Inlet, outlet pipe diameter	mm	O.D. dia.9 × I.D. dia.5 (Rc 1/4)		O.D. dia.9 × I.D. dia.5 (Rc 1/4)		O.D. dia.12 × I.D. dia.8 (G1/4)		O.D. dia.12 × I.D. dia.8 (G1/4)	
Ambient temperature	°C	7 – 40		7 – 40		0 – 40		0 – 40	
	°F	44.6 – 104		44.6 – 104		32 – 104		32 – 104	
Overall dimensions	mm	118(W) × 242(L) × 178(H)		128(W) × 242(L) × 178(H)		157(W) × 336.5(L) × 217(H)		181(W) × 336.5(L) × 217(H)	

Corresponding voltage and Certificate

Model	Voltage	CE Marked	TUV Marked	cTUVus Marked
DA-20DA	Single phase, 100V	✓	✓	—
DA-20DB	Single phase, 115V	✓	✓	—
DA-20D	Single phase, 200V	—	—	—
DA-20DC	Single phase, 220V	✓	✓	—
DA-40SA	Single phase, 100V	✓	✓	—
DA-40SB	Single phase, 115V	✓	✓	—
DA-40S	Single phase, 200V	—	—	—
DA-40SC	Single phase, 220V	✓	✓	—
DA-41D	Single phase, 100V	—	—	—
	Single phase, 115V	—	—	—
	Single phase, 200V	—	—	—
	Single phase, 220V	—	—	—
DA-81S	Single phase, 100V	—	—	—
	Single phase, 115V	—	—	—
	Single phase, 200V	—	—	—
	Single phase, 220V	—	—	—

— : Not Available, ✓ : Available

Pumping speed curves



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Applications

- Vacuum chucks, wafer and tip handling devices.
- Vacuum tweezers, medical appliances.
- Printing equipment.
- Automatic packing machines.
- Optical appliances.
- Semiconductor industry.



DA-60D



DA-120S



DA-121DF



DA-241SF

Specifications

Model	Unit	DA-60D		DA-120S		DA-121DF		DA-241SF	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Actual pumping speed	L/min	60	72	120	144	120	145	240	260
	m ³ /h	3.60	4.32	7.20	8.64	7.20	8.70	14.40	15.60
	CFM	2.12	2.54	4.24	5.08	4.24	5.12	8.47	9.18
Ultimate pressure	Pa (kPa)	3.32 × 10 ³ * (-98.0)		13.3 × 10 ³ * (-88.0)		3.3 × 10 ³ (-98.0)		16.0 × 10 ³ (-85.3)	
	Torr	24.9		100		24.8		120	
	mbar	33.2		133		33.0		160	
Motor		Single phase, 220V, 200W, 4P, Capacitor run		Single phase, 220V, 200W, 4P, Capacitor run		Single phase, 220 – 230V, 400W, 4P, Capacitor run		Single phase, 220 – 230V, 400W, 4P, Capacitor run	
Full load current	A	2.4		2.4		2.3	2.6/2.5 (220/230V)	2.5/2.4 (220/230V)	2.7/2.6 (220/230V)
Weight	kg	19.0		19.0		26.0		26.0	
Inlet, outlet pipe diameter	mm	O.D. dia.14 × I.D. dia.9 (G3/8)		O.D. dia.14 × I.D. dia.9 (G3/8)		O.D. dia.16 × I.D. dia.12 (G1/2)		O.D. dia.16 × I.D. dia.12 (G1/2)	
Ambient temperature	°C	7 – 40		7 – 40		0 – 40		0 – 40	
	°F	44.6 – 104		44.6 – 104		32 – 104		32 – 104	
Overall dimensions	mm	156(W) × 358(L) × 238(H)		162(W) × 358(L) × 238(H)		193.5(W) × 411(L) × 285(H)		207(W) × 411(L) × 285(H)	

* With built-in Unloader valve.

Corresponding voltage and Certificate

Model	Voltage	CE Marked	TUV Marked	cTUVus Marked
DA-60D	Single phase, 100V	—	—	—
	Single phase, 115V	—	—	—
	Single phase, 200V	—	—	—
	Single phase, 220V	—	—	—
DA-120S	Single phase, 100V	—	—	—
	Single phase, 115V	—	—	—
	Single phase, 200V	—	—	—
	Single phase, 220V	—	—	—
DA-121DC	Single phase, 100V	✓	✓	✓
DA-121DD	Single phase, 115V	✓	✓	✓
DA-121DE	Single phase, 200V	✓	✓	✓
DA-121DF	Single phase, 220 – 230V	✓	✓	✓
DA-241SC	Single phase, 100V	✓	✓	✓
DA-241SD	Single phase, 115V	✓	✓	✓
DA-241SE	Single phase, 200V	✓	✓	✓
DA-241SF	Single phase, 220 – 230V	✓	✓	✓

— : Not Available, ✓ : Available

Pumping speed curves

